

# Ultrabond P902 2K

## Two-component epoxy-polyurethane adhesive for wooden flooring



### WHERE TO USE

Bonding of all sizes and types of wooden flooring.

### Some application examples

**Ultrabond P902 2K** is used for bonding small and large sized planks and all types of wood on: cementitious screeds; **Mapecem, Mapecem Pronto, Topcem, Topcem Pronto** screeds and similar; existing flooring in wood, ceramic tiles, marble, terrazzo tiles, etc.; anhydrite screeds and metallic sheets. Suitable for under floor heating systems.

### TECHNICAL CHARACTERISTICS

**Ultrabond P902 2K** is a two-component adhesive. Component A is an epoxy-polyurethane polymer and component B is a hardener in paste form. The consistency of the two pastes is such that mixing is very easy to carry out and errors are easily avoidable. By mixing the two parts together, a uniform coloured product is obtained that can be easily applied with a notched trowel and has an excellent rib stability. After hardening (approximately 24 hours at room temperature) by chemical reaction, **Ultrabond P902 2K** becomes a strong film with high bonding strength to all types of substrates, including those that are non-porous (ceramic).

### RECOMMENDATIONS

- Before installation, make sure that windows and doors have been fitted and that the building is weathertight.
- The moisture content of the screed must be in accordance with relevant standards.

- If the substrate is not dry or the residual moisture is above that provided, it is recommended to use a suitable waterproofing primer, such as **Primer MF, Eco Prim PU 1K, Triblock P**, etc.
- If there is danger of rising damp, always insert a vapour barrier before preparing the screed.
- Make sure the moisture content of the wood is that advised.
- Install at temperatures between +10°C and +30°C.
- Install only if the walls and the ceilings of the room are dry.
- Mix only whole packs; batching partial quantities requires extreme precision in weighing the two components.

### APPLICATION PROCEDURE

#### Preparing the substrate

It is necessary to carefully check the substrate to verify its condition and make it suitable for installing wood.

- **Cementitious screeds:** must be cured, dry, flat and mechanically strong. The surface must be free from dust, loose parts, oil residues, paints, etc. The moisture content of the screed must be measured with a carbide hygrometer. If the residual moisture is higher than that required, wait until the screed is dry or apply a suitable waterproofing primer, such as **Eco Prim PU 1K, Primer MF, Triblock P, Primer PU60**, etc. in order to make a vapour barrier.

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Substrates that are not solid enough must be removed or where possible, consolidated with a primer such as **Eco Prim PU 1K**, **Primer MF**, **Primer EP**, **Primer PU60**, etc.

Cracks can be repaired with products such as **Eporip**, **Eporip Turbo**, **Epojet**, etc. Particularly rough or uneven surfaces can be smoothed with levelling compounds with very high mechanical strength, such as **Ultraplan**, **Ultraplan Maxi**, **Nivorapid**, **Fiberplan**, etc. and should be chosen in relation to the thickness needed (the minimum thickness required must be of 3 mm). Installation of another flooring can be carried out once the product has dried (see technical data sheet). Special MAPEI hydraulic binders can be used for the preparation of fast drying and shrinkage compensated screeds: for example **Mapecem** or **Mapecem Pronto**, which allow installation after 1 day, **Topcem** or **Topcem Pronto** after 4 days.

Screed laid onto light weight concrete or onto a grade concrete slab must be provided with a suitable vapour barrier.

– **Existing ceramic tiles, marble, etc.:** must be free from all grease, polish/paint before proceeding to bond. This adhesion can be further improved by applying a coat of **Primer KL**, immediately before installation.

– **Wooden flooring:** check that the strips of existing flooring are well bonded to the substrate. Remove any paint or wax by abrasion until perfectly clean wood is exposed. Vacuum all dust. Proceed with the installation.

– **Anhydrite substrates:** after scabbling and vacuum cleaning, always apply a primer (**Primer MF**, **Eco Prim PU 1K**, etc.). After it has dried completely, proceed with bonding.

## Mixing the adhesive

The two components of **Ultrabond P902 2K** are packed in plastic containers and are already pre-measured:

- component A : 9 parts by weight
- component B : 1 part by weight

Any type of modification of the ratio between component A and component B compromises the correct cross-linking of the product.

Mix with a low speed stirrer until a uniform colour is obtained. Setting time and pot life strictly depends on the ambient temperature. During the summer time the product hardens quickly while in winter it takes longer. At temperatures below +10°C the reaction is too slow, therefore it is not recommended to lay wooden flooring.

## Applying the product

Apply **Ultrabond P902 2K** on the substrate using a MAPEI notched trowel for wood. The open time is approximately 1 hour under normal temperature conditions (+23°C).

## INSTALLING THE WOOD FLOORING

The wood that will be installed must be stored dry, insulated from the ground and in a place protected from bad weather that is not subject to vapour condensation. Before installing check that the moisture content of the wood is correct.

While installing apply pressure on the wood to make sure the adhesive wets the back of the wooden strips.

Leave a 1 cm joint around the perimeter of the flooring and around columns or other interruptions in the floor.

When installing predefined strips, avoid squeezing the adhesive in the joints between the strips, in order not to contaminate the surface.

Never bond the edges of wood.

## SET TO LIGHT FOOT TRAFFIC

The floors are ready to take light foot traffic after approximately 24 hours.

## POLISHING

Polishing can be carried out after a minimum of 3 days, depending on the season.

However, it is recommended to wait 7-10 days so the parquet can settle better.

## Cleaning

Whilst fresh **Ultrabond P902 2K** can be removed with alcohol or specific products. Once the product has hardened, it can only be removed mechanically or with **Pulicol**.

## CONSUMPTION

Depending on the type of substrate, 1000-1500 g/m<sup>2</sup> with a MAPEI wooden trowel.

## COLOUR

Beige and brown.

## PACKAGING

10 kg (A+B) units:  
component A: 9 kg bucket;  
component B: 1 kg jar (bottle).

## STORAGE

In original well sealed containers and stored in a normal environment, **Ultrabond P902 2K** is stable for at least 24 months.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Ultrabond P902 2K** component A is irritating to the eyes and the skin. Component B may even cause serious damage to the eyes if it comes in contact with them. Both component A and B may cause allergic reactions in person who are predisposed.

We recommend wearing protective clothing, gloves and eye/face protection - in case of contact with the eyes wash with plenty of water and seek medical attention.

**Ultrabond P902 2K** component A is dangerous to aquatic organisms - avoid release to the environment. For further information refer to the Safety Data Sheet.

FOR PROFESSIONALS.



Pouring the hardener (component B) into the adhesive (component A)



Mixing the two parts

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

	component A	component B
<b>Consistency:</b>	paste	paste
<b>Colour:</b>	beige brown	whitish
<b>Density (g/cm<sup>3</sup>):</b>	1.66	1.29
<b>Dry solid content (%):</b>	96.8	100
<b>Brookfield Viscosity (mPa·s):</b>	37,000 (7 shaft - rpm 50)	9,000 (7 shaft - rpm 10)
<b>Storage:</b>	12 months in original sealed packaging	
<b>Hazard classification according to EC 1999/45:</b>	irritant	irritant Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
<b>Customs class:</b>	3909 50 00	

### APPLICATION DATA (at +23°C and 50% R.H.)

<b>Mix ratio:</b>	A : B = 9 : 1
<b>Viscosity of the mix (mPa·s):</b>	32,000 (7 shaft - rpm 50)
<b>Density of mix (g/cm<sup>3</sup>):</b>	1,600
<b>Pot life of mix:</b>	60-70 minutes
<b>Application temperature range:</b>	from +10°C to +30°C
<b>Open time:</b>	1 hour
<b>Adjustment time:</b>	2 hours
<b>Set to light foot traffic:</b>	after 24 hours
<b>Polishing:</b>	after 3 days

### FINAL PERFORMANCES

<b>Adhesion (pull-off) wood-concrete (N/mm<sup>2</sup>):</b>	> 3 (concrete failure)
<b>Adhesion (pull-off) wood-ceramic (N/mm<sup>2</sup>):</b>	> 3
<b>Temperature when in use:</b>	from -30°C to +70°C
<b>Flexibility:</b>	yes
<b>Shore A Hardness (after 7 days at +23°C):</b>	88



*Pouring the adhesive onto the screed*



*Cleaning off the adhesive with a trowel*



*Applying the adhesive*



# Ultrabond P902 2K



Applying the adhesive  
with a notched trowel  
for wood



Installing a 14 mm  
Teak plank



## WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

All relevant references  
for the product are available  
upon request and from  
[www.mapei.com](http://www.mapei.com)